

Tuesday, Jan. 14, 2003

Countdown begins, mission crew arrives for launch Jan. 16



ISS crew to preview spacewalk on 2 p.m. NASA TV broadcast Jan. 14



▲ **Mission Update:** The launch countdown began late Sunday for Shuttle Columbia's Spacehab microgravity research mission scheduled to launch this Thursday, Jan. 16. Work continues at Pad 39-A with preparations in work for loading the liquid hydrogen and liquid oxygen into the Power Reactant Storage and Distribution System.

Due to the quantity and nature of research to be performed on this mission, technicians began preparations to load late-stow payloads and experiments into the SPACEHAB module on Monday. The STS-107 crew arrived Sunday. Weather forecasters predict a favorable outlook for a launch attempt on Thursday, with only a 5 percent chance of weather prohibiting launch.

▲ **ISS Update:** The activities of the Expedition Six crew aboard the ISS and a preview of their next spacewalk will be the subjects of a Mission Status Briefing scheduled for **Tuesday, Jan. 14 at 2 p.m. EST.** The briefing will originate from JSC and participants will include Melissa Gard, Expedition Six Increment Manager; Norm Knight, ISS Flight Director; and Daryl Schuck, Expedition Six EVA Officer. The spacewalk is scheduled to occur on **Wednesday, Jan. 15 at approximately 7 a.m. EST.** All activities will be aired on NASA TV.

Meanwhile, ISS crew members are participating in various experiments. Commander Ken Bowersox provided data to scientists for the FOOT (Foot/Ground Reaction Forces During Spaceflight) experiment, which looks at how the arms, hips, knees, legs and feet move in the absence of gravity, and looks at what changes occur in bones and muscles during spaceflight. Bowersox wore a special pair of cycling pants with 20 sensors on his legs and additional sensors on his arms that took electrical impulse measurements throughout his workday Tuesday.

All three crew members participated in a monthly lung-function test, to study the effects of weightlessness. They will participate in another session after the spacewalk.

◆ **FEW Scholarships** – The Space Coast Chapter of Federally Employed Women (FEW) is awarding scholarships for high school and/or college students who are currently attending college or enrolling in the fall semester 2003. Students must have a GPA of 3.0 or higher to be considered. Applications should be received by March 14, 2003. For additional information or an application, please contact Jane Eitel/QA-D at 867-7952; Maxine Johnson/YA at 867-7770; or Karin Biega/XA-A at 867-6382.

◆ **Did You Know? Girls can become engineers too!**

The Space Coast Section of the Society of Women's Engineers is hosting **Introducing Girls To Engineering Workshop**, to be held Saturday, Jan. 25, 9 a.m. to 3 p.m. at Merritt Island High School, 100 East Mustang Way (at Courtenay Parkway). Registration/Sign-in starts at 8:30. This Program is for girls in grades 3 - 9. Workshops will provide opportunities to do fun hands-on experiments related to several engineering fields; will teach what different types of engineers do; and will provide all participants an opportunity to meet and talk with women engineers about how and why they became engineers. Special sessions are scheduled to assist parents in helping girls pursue a career in engineering as well as other technology fields. Parent and students -- Check out and register on the web site at <http://www.swe-sc.org/IGEW>. For assistance and additional information, contact Barbara Hoelscher (321-268-5888; or barbara.hoelscher@swe.org). Registration deadline is Jan. 15. The \$10 fee includes lunch and T-shirt. FEW is also looking for a few good volunteers to help staff this event! If you are interested in being a volunteer, please register on-line.

KSC Countdown is published every Tuesday & Thursday.

Deadlines: 10 a.m. Mondays & Wednesdays. Send information, comments or questions to:

◆ E-mail – Anita.Barrett-1@ksc.nasa.gov ◆ Telephone – 867-2815

Find KSC Countdown on the Internet at <http://www-pao.ksc.nasa.gov/kscpao/ksccount/2002.htm>